Residential Gas Water Heaters

ProMax® DIRECT-VENT

Features

DIRECT-VENT DESIGN
One-pipe, dual-channel closed system draws all make-up air from outside the home, eliminating problems caused by insufficient indoor ventilation and is FVIR compliant.

Horizontal air intake and venting on all models up to 80 inches from outside wall with no electrical power needed.

DYNACLEAN™ DIFFUSER DIP TUBE
Helps reduce lime and sediment buildup, maximizes hot water output. Made from long-lasting PEX cross-linked polymer.

GREEN CHOICE® GAS BURNER
Patented "Eco-Friendly" design reduces NOx emissions up to 33% and complies with requirements for less than 40ng/j for low NOx.

PUSH BUTTON PIEZO IGNITOR
Makes lighting pilot fast and easy with one hand push button spark ignition.

HEAT TRAP NIPPLES
Factory-installed.

DURABLE TAMPER-RESISTANT BRASS DRAIN VALVE

PERMAGLAS® GLASS COATING
Protects steel tank from buildup.

CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE

6-YEAR LIMITED TANK & PARTS WARRANTY
For complete information, consult written warranty or A. O. Smith Water Products Company.

CODE COMPLIANCE
UBC, CEC, SBCC, HUD and BOCA National Codes. Meets or exceeds the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1. Meets or exceeds the Federal Energy Efficiency Standards effective January 20, 2004, according to the National Appliance Energy Conservation Act (NAECA) of 1992.

DESIGN-CERTIFIED BY CSA INTERNATIONAL
According to ANSI Z21.10.1– CSA 4.1 Standards governing storage-type water heaters.

Green Choice®
The Eco-Friendly Gas-Fired Burner

DESIGN CERTIFIED

July 2011R

AOSRG45700

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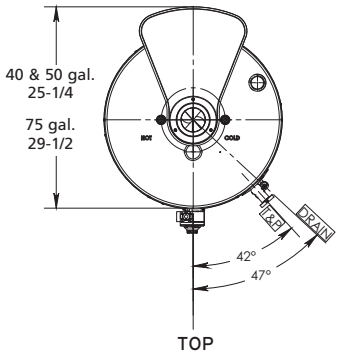
Residential Gas Water Heaters

ProMax® DIRECT-VENT

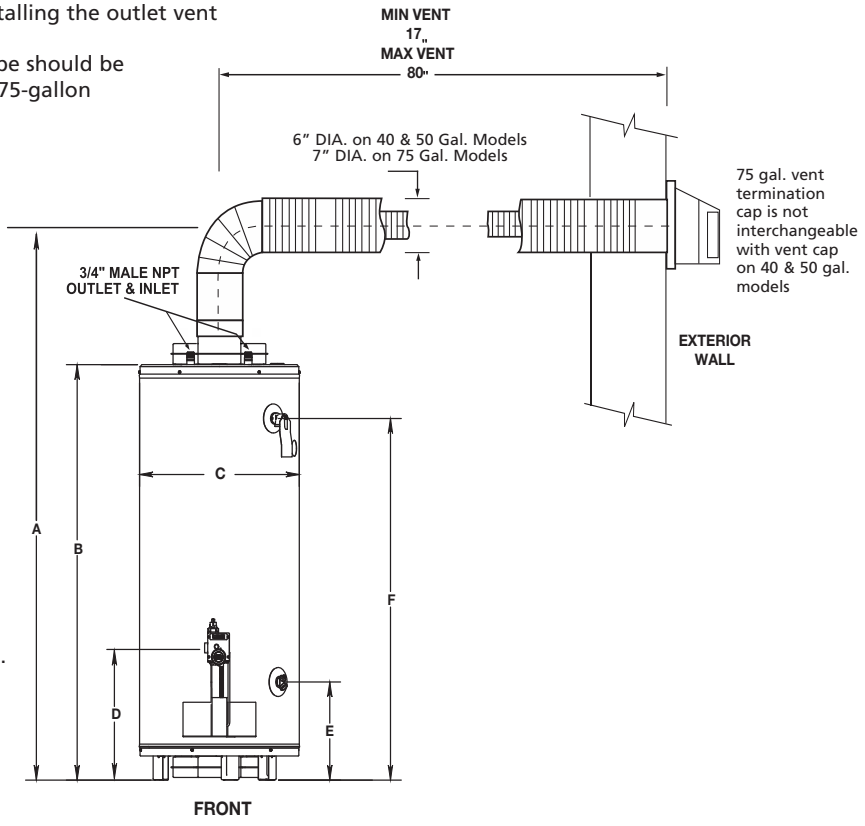
MODEL NUMBER	FIRST HOUR RATING GALLONS	ENERGY FACTOR	GAL. CAP.	BTU INPUT PER HOUR	RECOVERY 90°F RISE GALLONS PER HOUR	DIMENSIONS IN INCHES						VENT OUTLET*	APPROX. SHIPPING WEIGHT (LBS)
						A	B	C**	D	E	F		
GDV-40	73	.62	40	38,000	41	68	54-3/4	22-1/4	16	12-1/4	45-1/4	Co-Axial	167
GDV-50	87	.60	50	42,000	45	76	63-3/4	22-1/4	16	12-1/4	54	Co-Axial	185
GDVT-50	88	.59	50	50,000	55	76	64-3/4	22-1/4	16-1/4	12-1/2	55-1/2	Co-Axial	187
GDV-75	131	.59	75	55,000	60	76	65-3/4	26-1/4	16-1/4	12-1/2	55-1/2	Co-Axial	310

Recovery capacities based on actual performance tests.
* Dual-channel system has 3˝ vent pipe inside 6˝ air intake pipe, for the 40 & 50–gallon models. The 75 gallon model uses a 4" x 7" co-axial pipe.
All Models Have 2" Foam Cavity.
Water connection 3/4" male all models.
75 gallon water connections are 12" on center.
** Allow 25 1/4˝ for 40 and 50–gallon models and 29 1/2˝ for 75–gallon models for front–to–back dimensions for air intake at the rear of the heater.
GDV–40 Models are ENERGY STAR® qualified.



Important! Vent Installation and Termination Requirements

- Maximum horizontal vent distance is 80" to outside of exterior wall.
- Minimum horizontal vent distance is 17" to outside of exterior wall.
- Vent pipes may be trimmed (cut) for short vent installations.
- For vent installation less than 30" the vent restrictor is required. Place restrictor over the flue outlet on heater before installing the outlet vent pipe to the heater.
- Recommended installation height for the heater vent pipe should be 68" for 40 gallon models and 76" for the 50-gallon and 75-gallon models (vent height).
- Offset Vent Arrangement
  1. When replacing an existing direct vent model, the new vent pipe may drop from the minimum vent height as much as 7 1/4" to exit through the existing vent opening in the exterior wall.
  2. Vent may have one horizontal 90 degree turn before exiting through exterior wall (Do not combine both offset vent arrangements in one installation) (See examples in the installation manual)
- High Rise Vent Arrangement
  3. When vent termination is more than 80" above the base of the heater. The horizontal vent run must be a minimum of 22" from the center of the heater to the outside exterior wall surface. (See example in the installation manual)
- Vent termination clearance hole through the exterior wall should be approximately 7" diameter.
- Snow accumulation and drifting should be considered when locating the termination.
- An optional wire grill vent cap protector is available through the parts department. Part number 9006627005.
- See the installation manual for complete installation and venting requirements.



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